

5. (Four Times Amended) ~~The composition of Claim 118 wherein said essential oil or component thereof~~ A composition to repel or kill insects, fungi, nematodes and bacteria, comprising, an oil-in-water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or a component thereof in an amount of from 1 to 1000 ppm of the emulsion, wherein said essential oil or component thereof comprises at least one compound selected from the group consisting of *cis*-anethole, *trans*-anethole, anisaldehyde, anisole, camphene, camphor, carvone, carvacrol, cinnamic aldehyde, citronellal, cineol, 1,8-cineole, *p*-cymene-8-ol, decanal, geranial, geraniol, geranyl acetate, isoborneol, lavanduol, limonene, linalool, linalyl acetate, menthol, menthone, methyl chavicol, methyleugenol, methylinone, nonanal, α -pinene, β -pinene, β -phelladrene, α -phelladrene, pulegone, terpenyl acetate, α -terpinene, γ -terpinene, terpinene-4-ol, thymil acetate and thymol.
6. (Previously Amended) The composition of Claim 5, wherein said essential oil or component thereof is at least one compound selected from the group consisting of carvacrol, cymene and anethole.
7. (As Filed) The composition of Claim 6 wherein said component is anethole.
8. (As Filed) The composition of Claim 7 wherein said component is *trans*-anethole.
9. Previously Canceled

10. ~~Canceled.(Twice Amended)~~ The composition of Claim 118 further including a carrier component for soil application.
11. ~~Canceled.(Amended)~~ The composition of Claim 10 wherein said carrier component is vermiculite or perlite.
12. (Previously Amended) The composition of Claim 119 in a liquid form.
13. Previously Canceled
14. (Twice Amended) ~~The composition of Claim 118 wherein said active ingredient is present in a~~ paint including, a composition to repel or kill insects, fungi, nematodes and bacteria, comprising, an oil-in-water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or a component thereof in an amount of from 1 to 1000 ppm of the emulsion, wherein said essential oil or component thereof is derived from at least one plant species in the Family *Labiatae* and *Umbellifera*.
15. ~~Canceled.(Amended)~~ The composition of Claim 118 formulated for vaporization.
16. ~~Canceled. (Amended)~~ The composition of Claim 118 formulated as an aerosol.
17. ~~Canceled. (Amended)~~ The composition of Claim 118 formulated as a cream.
18. Previously Canceled
19. Previously Canceled

20. (Twice Amended) ~~The composition of Claim 118 formulated with~~ A composition to repel or kill insects, fungi, nematodes and bacteria, comprising, an oil-in-water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or a component thereof in an amount of from 1 to 1000 ppm of the emulsion, wherein said essential oil or component thereof is derived from at least one plant species in the Family *Labiatae* and *Umbellifera*, said formulation further including paraffin.
21. Previously Canceled
22. (Three Times Amended) The composition of Claim 118-5 further comprising an emulsifying agent.
23. ~~Canceled. (Previously Amended) The composition of Claim 22 wherein said emulsifying agent is Tween 20.~~
24. (Previously Twice Amended) A method of protecting a plant against pathogenic or parasitic organisms comprising applying to at least one of the foliage and rhizosphere of said plant, a composition comprising an oil-in-water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or at least one component thereof in an amount of from 1 to 1000 ppm of the emulsion in an amount sufficient to prevent adverse effects to the plant caused by said pathogenic organisms.

25. (Twice Amended) The method of Claim ~~117~~24 wherein said pathogenic or parasitic organisms are at least one organism selected from the group consisting of nematodes, bacteria, fungi and insects.
26. (As filed) The method of Claim 25 wherein said insects are selected from the group consisting of mites, ants, aphids, and termites.
27. (As filed) The method of Claim 26 wherein said insects are at least one species selected from the group consisting of *Tetranychus*.
28. (As filed) The method of Claim 27 wherein said insects are *Tetranychus cinnabarinus*.
29. (Twice Amended) The method of Claim ~~117~~24 wherein said bacteria are at least one species selected from the group consisting of *Erwinia*, *Xanthomonas*, *Pseudomonas*, *Clavibacter*, and *Agrobacterium*.
30. (As filed) The method of Claim 29 wherein said bacteria are at least one species selected from the group consisting of *Agrobacterium tumifaciens*, *Clavibacter michiganensis*, *Erwinia amylovora*, *Erwinia carotovora*, *Pseudomonas syringae*, and *Xanthomonas axonopodis*.
31. (As filed) The method of Claim 30 wherein said fungi are at least one species selected from the group consisting of *Fusarium*, *Rhizoctonia*, *Sclerotinia*, and *Phytophthora*.

32. (As filed) The method of Claim 31 wherein said fungi are at least one species selected from the group consisting of *Fusarium monoliforme*, *Rhizoctonia solani*, *Sclerotinia sclerotium*, *Phytophthora capsici* and *Phytophthora fragaria*.
33. (Twice Amended) The method of Claim ~~117-24~~ wherein said essential oil or component thereof is derived from at least one essential oil producing plant species of a genera selected from the group consisting of *Thymbra*, *Satureja*, *Origanum*, *Corydothymus*, *Pinpinella* and *Foeniculum*.
34. (Twice Amended) The method of Claim ~~117-24~~ wherein said essential oil producing plant species is selected from the group consisting of *Thymbra spicata* var. *spicata*, *Satureja thymbra*, *Origanum majorana*, *Corydothymus capitatus*, *Origanum vulgare*, *Origanum solymicum*, *Origanum spyleum*, *Origanum bilgeri*, *Origanum minutiflorum*, *Organum saccatum*, *Origanum sriacum*, *Origanum onites*, *Origanum majorana*, *Pinpinella anisum*, and *Foeniculum vulgare*.
35. (Twice Amended) The method of Claim ~~117-24~~ wherein said essential oil producing plant species is selected from the group consisting of *Thymbra spicata* var. *spicata* (L) Line Ant97- 364-48, *Satureja thymbra* (L) Line Ant98-28-103, *Pinpinella anisum* (L) Line Ant98-223-137, and *Foeniculum vulgare* (L) Line Ant98-89-62.
36. (Twice Amended) The method of Claim ~~117-24~~ wherein said essential oil or component thereof comprises at least one compound selected from the group

consisting of *cis*-anethole, *trans*-anethole, anisaldehyde, anis ketone, anisole, β -bisabolene, borneol, bornyl acetate, cadinene, camphene, camphor, Δ -3-carene, Δ -4-carene, carophyllene, carvone, carvacrol, γ -caryophyllene, cinnamic aldehyde, citronellal, cineol, 1,8-cineole, ρ -cymene, ρ -cymene-8-ol, decanal, estragole, eugenol, eugenyl acetate, α -fenchene, fenchole, fenchone, geranial, geraniol, geranyl acetate, isoborneol, lavanduol, limonene, linalool, linalyl acetate, menthol, menthone, menthyl acetate, *cis*-p-menth-2-en-1-ol, *trans*-p-menth-2-en-1-ol, methoxy phenyl acetone, methyl chavicol, methyleugenol, methylinone, 2-methylpentan-3-one, myrcene, nerol, nonanal, *cis*- β -ocimene, *trans*- β -ocimene, octanal, 3-octanol, α -pinene, β -pinene, β -phelladrene, α -phelladrene, pulegone, sabinene, *cis*-sabinene hydrate, *trans*-sabinene hydrate, γ -terminene, terpenyl acetate, α -terpinene, γ -terpinene, terpinene-4-ol, α -terpineol, β -terpineol, terpinolene, 2,3,5,6-tetramethylphenol, α -thujene, thymil acetate, thymol, and tricyclene.

37. (Twice Amended) The method of Claim ~~117-24~~ wherein said essential oil or component thereof is at least one compound selected from the group consisting of carvacrol, thymol, cymene and anethole.
38. (Twice Amended) The method of Claim ~~117-24~~ wherein said component is anethole.

39. (Twice Amended) The method of Claim ~~117~~24 wherein said component is *trans*-anethole.
40. Previously Canceled
41. ~~Canceled. (Previously Amended) A method of protecting plants from pathogens comprising inoculating the soil surrounding said plants with a bacterium which degrades essential oils or components thereof.~~
42. (Twice Amended) The method of claim ~~117~~24 wherein said composition is applied by spraying.
43. ~~Canceled. (As filed) The method of Claim 42 further comprising solarization.~~
44. (Twice Amended) The method of Claim ~~241~~17 wherein said composition is applied by fogging.
45. (Twice Amended) The method of Claim ~~241~~17 wherein said composition is applied in irrigation water.
46. (Twice Amended) The method of Claim ~~241~~17 wherein said composition further comprises a carrier, and said composition is applied in the soil around the plant.
47. (As filed) The method of Claim 46 wherein said carrier is selected from the group consisting of perlite, commercially available dust preparations, commercially available granule preparations and vermiculite.

48. (Twice Amended) The method of Claim ~~24~~¹¹⁷ wherein said composition further comprises bacteria which degrades essential oils or components thereof.
49. ~~Canceled. (As filed) A fungicide composition comprising an oil-in-water emulsion comprising, in the oil phase, an essential oil, or at least one component thereof from *Laurus nobilis* in an amount of from 1 to 1000 ppm of the emulsion.~~
50. (Previously Amended) A method of inhibiting fungal infections of plants comprising applying a composition comprising an oil-in-water emulsion comprising, in the oil phase, an essential oil or at least one active component thereof in an amount of from 1 to 1000 ppm of the emulsion to the plant, wherein said essential oil or active component thereof is from *Laurus nobilis*.
51. ~~Canceled. (Previously Amended) A method of preserving food for storage by repelling or killing insects comprising applying to one of said food and a container containing said food a composition comprising, as an active ingredient, an essential oil or a component thereof, wherein said essential oil or component thereof is derived from at least one plant species in the Family *Labiatae* and *Umbellifera*.~~
52. ~~Canceled. (As filed) The method of Claim 51 wherein said plant species is at least one species of a genera selected from the group consisting of *Thymbra*, *Satureja*, *Origanum*, *Corydothymus*, *Pinpinella* and *Foeniculum*.~~

53. ~~Canceled.~~(As filed) The method of Claim 51 wherein said plant species is selected from the group consisting of *Thymbra spicata* var. *spicata*, *Satureja thymbra*, *Origanum majorana*, *Corydothymus capitatus*, *Origanum vulgare*, *Origanum solymicum*, *Origanum spyleum*, *Origanum bilgeri*, *Origanum minutiflorum*, *Origanum saccatum*, *Origanum sriacum*, *Origanum onites*, *Origanum majorana*, *Pinpinella anisum*, and *Foeniculum vulgare*.
54. ~~Canceled.~~(As filed) The method of Claim 51 wherein said plant species is selected from the group consisting of *Thymbra spicata* var. *spicata* (L) Line Ant97-364-48, *Satureja thymbra* (L) Line Ant98-28-103, *Pinpinella anisum* (L) Line Ant98-223-137, and *Foeniculum vulgare* (L) Line Ant98-89-62.
55. ~~Canceled.~~(As filed) The method of Claim 51 wherein said essential oil or component thereof comprises at least one compound selected from the group consisting of *cis*-anethole, *trans*-anethole, anisaldehyde, anis ketone, anisole, β -bisabolene, borneol, bornyl acetate, cadinene, camphene, camphor, Δ -3-carene, Δ -4-carene, carophyllene, carvone, carvacrol, γ -caryophyllene, cinnamic aldehyde, citronellal, cineol, 1,8-cineole, *p*-cymene, *p*-cymene-8-ol, decanal, estragole, eugenol, eugenyl acetate, α -fenchene, fenchole, fenchone, geranial, geraniol, geranyl acetate, isoborneol, lavanduol, limonene, linalool, linalyl acetate, menthol, menthone, menthyl acetate, *cis*-*p*-menth-2-en-1-ol, *trans*-*p*-menth-2-en-1-ol, methoxy phenyl acetone, methyl chavicol, methyleugenol, methylinone, 2-methylpentan-3-one, myrcene, nerol, nonanal, *cis*- β -ocimene, *trans*- β -ocimene,

~~octanal, 3-octanol, α -pinene, β -pinene, β -phelladrene, α -phelladrene, pulegone, sabinene, *cis*-sabinene hydrate, *trans*-sabinene hydrate, γ -terminene, terpenyl acetate, α -terpinene, γ -terpinene, terpinene-4-ol, α -terpineol, β -terpineol, terpinolene, 2,3,5,6-tetramethylphenol, α -thujene, thymil acetate, thymol, and tricyclene.~~

56. ~~Canceled. (As filed) The method of Claim 51, wherein said essential oil or component thereof is at least one compound selected from the group consisting of carvacrol, thymol, cymene and anethole.~~
57. ~~Canceled. (As filed) The method of Claim 51 wherein said component is anethole.~~
58. ~~Canceled. (As filed) The method of Claim 51 wherein said component is *trans*-anethole.~~
59. ~~Canceled. (Previously Amended) — The method of Claim 51 wherein said composition further comprises paraffin and said composition is applied to said food.~~
60. ~~Canceled. (As filed) The method of Claim 51 wherein said insects are at least one species of the genera selected from the group consisting of *Tribolium*, *Sitophilus*, *Ephestia* and *Ceratitus*.~~

61. ~~Canceled.~~(As filed) The method of Claim 51 wherein said insects are selected from the group consisting of *Tribolium confusum*, *Sitophilus zeamais*, *Sitophilus oryzae*, *Ephestia kuehniella* and *Ceratitus capita*.
62. ~~Canceled.~~(Amended) A method of treating pepper root rot disease caused by *Phytophthora capsici* in an affected plant comprising administering an oil in water emulsion comprising, as an active ingredient, an essential oil or at least one component thereof in an amount of from 1 to 1000 ppm of said emulsion, to the soil about said affected plant.
63. ~~Canceled.~~(As filed) The method of Claim 62 wherein said essential oil is derived from a plant of the Family selected from the group consisting of *Labiatae* and *Umbelliferae*.
64. ~~Canceled.~~(As filed) The method of Claim 62 wherein said plant species is selected from the group consisting of *Thymbra spicata* var. *spicata*, *Satureja thymbra*, *Origanum majorana*, *Corydanthus capitatus*, *Origanum vulgare*, *Origanum solymicum*, *Origanum spyleum*, *Origanum bilgeri*, *Origanum minutiflorum*, *Origanum saecatum*, *Origanum sriacum*, *Origanum onites*, *Origanum majorana*, *Pinpinella anisum*, and *Foeniculum vulgare*.
65. ~~Canceled.~~(As filed) The method of Claim 62 wherein said plant species is selected from the group consisting of *Thymbra spicata* var. *spicata* (L) Line Ant97-364-

~~48, *Satureja thymbra* (L) Line Ant98-28-103, *Pinpinella anisum* (L) Line Ant98-223-137, and *Foeniculum vulgare* (L) Line Ant98-89-62.~~

66. ~~Canceled.~~(As filed) The method of Claim 62 wherein said component of said essential oil is at least one compound selected from the group consisting of *cis*-anethole, *trans*-anethole, anisaldehyde, anis ketone, anisole, β -bisabolene, borneol, bornyl acetate, cadinene, camphene, camphor, Δ -3-carene, Δ -4-carene, carophyllene, carvone, carvacrol, γ -caryophyllene, cinnamic aldehyde, citronellal, cineol, 1,8-cineole, *p*-cymene, *p*-cymene-8-ol, decanal, estragole, eugenol, eugenyl acetate, α -fenchene, fenchole, fenchone, geranial, geraniol, geranyl acetate, isoborneol, lavanduol, limonene, linalool, linalyl acetate, menthol, menthone, menthyl acetate, *cis*-*p*-menth-2-en-1-ol, *trans*-*p*-menth-2-en-1-ol, methoxy-phenyl acetone, methyl-chavicol, methyleugenol, methylinone, 2-methylpentan-3-one, myrcene, nerol, nonanal, *cis*- β -ocimene, *trans*- β -ocimene, octanal, 3-octanol, α -pinene, β -pinene, β -phelladrene, α -phelladrene, pulegone, sabinene, *cis*-sabinene hydrate, *trans*-sabinene hydrate, γ -terminene, terpenyl acetate, α -terpinene, γ -terpinene, terpinene-4-ol, α -terpineol, β -terpineol, terpinolene, 2,3,5,6-tetramethylphenol, α -thujene, thymil acetate, thymol, and triicyclene.

67. ~~Canceled.~~(As filed) The method of Claim 62 wherein said active ingredient is at least one compound selected from the group consisting of carvacrol, thymol, eymene and anethole.
68. ~~Canceled.~~(As filed) The method of Claim 62 wherein said active ingredient is anethole.
69. ~~Canceled.~~(As filed) The method of Claim 62 wherein said active ingredient is *trans*-anethole.
70. (Previously Amended) A method of repelling or killing insects comprising applying a composition to an area, wherein said composition comprises an oil-in-water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or at least one active component thereof in an amount of from 1 to 1000 ppm of the emulsion, said essential oil from at least one plant selected from the genera *Labiata* and *Umbellifera*.
71. (As filed) The method of Claim 70 wherein said plant species is selected from the group consisting of *Thymbra spicata* var. *spicata*, *Satureja thymbra*, *Origanum majorana*, *Corydothymus capitatus*, *Origanum vulgare*, *Origanum solymicum*, *Origanum spyleum*, *Origanum bilgeri*, *Origanum minutiflorum*, *Organum saccatum*, *Origanum sriacum*, *Origanum onites*, *Origanum majorana*, *Pinpinella anisum*, and *Foeniculum vulgare*.

72. (As filed) The method of Claim 70 wherein said plant species is selected from the group consisting of *Thymbra spicata* var. *spicata* (L) Line Ant97- 364-48, *Satureja thymbra* (L) Line Ant98-28-103, *Pinpinella anisum* (L) Line Ant98-223-137, and *Foeniculum vulgare* (L) Line Ant98-89-62.
73. (As filed) The method of Claim 70 wherein said component of said essential oil is at least one compound selected from the group consisting of *cis*-anethole, *trans*-anethole, anisaldehyde, anis ketone, anisole, β -bisabolene, borneol, bornyl acetate, cadinene, camphene, camphor, Δ -3-carene, Δ -4-carene, carophyllene, carvone, carvacrol, γ -caryophyllene, cinnamic aldehyde, citronellal, cineol, 1,8-cineole, ρ -cymene, ρ -cymene-8-ol, decanal, estragole, eugenol, eugenyl acetate, α -fenchene, fenchole, fenchone, geranial, geraniol, geranyl acetate, isoborneol, lavanduol, limonene, linalool, linalyl acetate, menthol, menthone, menthyl acetate, *cis*-p-menth-2-en-1-ol, *trans*-p-menth-2-en-1-ol, methoxy phenyl acetone, methyl chavicol, methyleugenol, methylinone, 2-methylpentan-3-one, myrcene, nerol, nonanal, *cis*- β -ocimene, *trans*- β -ocimene, octanal, 3-octanol, α -pinene, β -pinene, β -phelladrene, α -phelladrene, pulegone, sabinene, *cis*-sabinene hydrate, *trans*-sabinene hydrate, γ -terminene, terpenyl acetate, α -terpinene, γ -terpinene, terpinene-4-ol, α -terpineol, β -terpineol, terpinolene, 2,3,5,6-tetramethylphenol, α -thujene, thymil acetate, thymol, and tricyclene.

74. (As filed) The method of Claim 70 wherein said active ingredient is at least one compound selected from the group consisting of carvacrol, thymol, cymene and anethole.
75. (As filed) The method of Claim 70 wherein said active ingredient is anethole.
76. (As filed) The method of Claim 70 wherein said active ingredient is *trans*-anethole.
77. Previously Canceled
78. (As filed) The method of Claim 70 wherein said active ingredient is combined with at least one inactive oil, wherein said composition is formulated as a fogging vapor.
79. (As filed) The method of Claim 70 wherein said composition further comprises a carrier.
80. (As filed) The method of Claim 79 wherein said carrier is selected from the group consisting of perlite, commercially available dust preparations, commercially available granule preparations, and vermiculite.
81. (As filed) The method of Claim 70 wherein said composition is formulated as a cream.

82. (As filed) The method of Claim 70 wherein said composition is formulated as a powder.
83. (As filed) The method of Claim 70 wherein said composition is formulated in paraffin.
84. (As filed) The method of Claim 70 wherein said composition is formulated in paint.
85. (As filed) The method of Claim 84 wherein said paint is an oil-based paint.
86. (As filed) The method of Claim 70 wherein said insects are at least one selected from the group consisting of flies, mosquitoes, aphids, fleas, ticks, spiders, cockroaches, ants, termites, and mites.
87. ~~Canceled.(Previously Amended) A method of protecting plants from pathogenic or parasitic organisms comprising treating seeds of said plants with a composition comprising at least one essential oil, a bacterium able to degrade said oil or a component thereof and at least one material that induces systemic disease resistance in plants, and thereafter cultivating said seeds.~~
88. Previously Canceled.
89. (Twice Amended) ~~The composition of Claim 118 further comprising~~ A composition to repel or kill insects, fungi, nematodes and bacteria, comprising, an oil-in-water emulsion comprising, in the oil phase, as an active ingredient, an

essential oil or a component thereof in an amount of from 1 to 1000 ppm of the emulsion, wherein said essential oil or component thereof is derived from at least one plant species in the Family *Labiatae* and *Umbellifera*, wherein said composition further comprises at least one other pesticide.

90. (Amended) ~~The composition of Claim 49~~ A fungicide composition comprising an oil-in-water emulsion comprising, in the oil phase, an essential oil, or at least one component thereof from *Laurus nobilis* in an amount of from 1 to 1000 ppm of the emulsion wherein said composition further comprises at least one other fungicide.
91. (As filed) The method of Claim 24 wherein said composition further comprises at least one other pesticide.
92. ~~Canceled.(As filed) The method of Claim 41 further comprising the application of at least one other pesticide.~~
93. (As filed) The method of Claim 50 wherein said composition further comprises at least one other fungicide.
94. ~~Canceled.(As filed) The method of Claim 51 wherein said composition further comprises at least one other pesticide.~~
95. ~~Canceled.(As filed) The method of Claim 62 wherein said aqueous emulsion further comprises at least one other pesticide.~~

96. (As filed) The method of Claim 70 wherein said composition further comprises at least one other pesticide.
97. (As filed) The method of Claim 24 wherein said essential oil is in an emulsion in water.
98. (As filed) The method of Claim 97 wherein said oil is present in an amount of greater than 10 ppm.
99. (As filed) The method of Claim 97 wherein said oil is present in an amount of greater than 25 ppm.
100. ~~Canceled.(Amended) A method of protecting a plant against pathogenic or parasitic organisms comprising increasing beneficial soil bacteria surrounding the roots of said plant by applying to the soil around said plant a composition comprising an oil in water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or at least one component thereof in an amount of from 1 to 1000 ppm of the emulsion, in an amount sufficient to foster an increase in said beneficial soil bacteria.~~
101. ~~Canceled.(As filed) The method of Claim 100 wherein said essential oil or component thereof is derived from at least one essential oil producing plant species of a genera selected from the group consisting of *Thymbra*, *Satureja*, *Origanum*, *Corydothymus*, *Pinpinella* and *Foeniculum*.~~

102. ~~Canceled.~~(As filed) The method of Claim 101 wherein said essential oil producing plant species is selected from the group consisting of *Thymbra spicata* var. *spicata*, *Satureja thymbra*, *Origanum majorana*, *Corydanthus capitatus*, *Origanum vulgare*, *Origanum solymicum*, *Origanum spyleum*, *Origanum bilgeri*, *Origanum minutiflorum*, *Origanum saccatum*, *Origanum sriacum*, *Origanum onites*, *Origanum majorana*, *Pinpinella anisum*, and *Foeniculum vulgare*.
103. ~~Canceled.~~(As filed) The method of Claim 102 wherein said essential oil producing plant species is selected from the group consisting of *Thymbra spicata* var. *spicata* (L) Line Ant97-364-48, *Satureja thymbra* (L) Line Ant98-28-103, *Pinpinella anisum* (L) Line Ant98-223-137, and *Foeniculum vulgare* (L) Line Ant98-89-62.
104. ~~Canceled.~~(As filed) The method of Claim 100 wherein said essential oil or component thereof comprises at least one compound selected from the group consisting of *cis*-anethole, *trans*-anethole, anisaldehyde, anis ketone, anisole, β -bisabolene, borneol, bornyl acetate, cadinene, camphene, camphor, Δ -3-carene, Δ -4-carene, carophyllene, carvone, carvacrol, γ -caryophyllene, cinnamic aldehyde, citronellal, cineol, 1,8-cineole, *p*-cymene, *p*-cymene-8-ol, decanal, estragole, eugenol, eugenyl acetate, α -fenchene, fenchole, fenchone, geranial, geraniol, geranyl acetate, isoborneol, lavanduol, limonene, linalool, linalyl acetate, menthol, menthone, menthyl acetate, *cis*-*p*-menth-2-en-1-ol, *trans*-*p*-menth-2-en-1-ol, methoxy phenyl acetone, methyl chavicol, methyleugenol, methylinone, 2-methylpentan-3-one, myrcene, nerol, nonanal, *cis*- β -ocimene, *trans*- β -ocimene,

~~octanal, 3-octanol, α -pinene, β -pinene, β -phelladrene, α -phelladrene, pulegone, sabinene, *cis*-sabinene hydrate, *trans*-sabinene hydrate, γ -terminene, terpenyl acetate, α -terpinene, γ -terpinene, terpinene-4-ol, α -terpineol, β -terpineol, terpinolene, 2,3,5,6-tetramethylphenol, α -thujene, thymil acetate, thymol, and tricyclene.~~

105. ~~Canceled.(As filed) The method of Claim 104 wherein said essential oil or component thereof is at least one compound selected from the group consisting of carvacrol, thymol, cymene and anethole.~~
106. ~~Canceled.(As filed) The method of Claim 105 wherein said component is anethole.~~
107. ~~Canceled.(As filed) The method of Claim 100 wherein said essential oil is in an emulsion in water.~~
108. ~~Canceled.(As filed) The method of Claim 107 wherein said oil is present in an amount of greater than 10 ppm.~~
109. ~~Canceled.(As filed) The method of Claim 108 wherein said oil is present in an amount of greater than 25 ppm.~~
110. ~~Canceled.(As filed) The method of Claim 100 wherein said composition further comprises a bacterium able to degrade said oil or at least one component thereof.~~

111. ~~Canceled.(As filed) The method of Claim 110 wherein said bacterium is a *Pseudomonas fluorescens*.~~
112. ~~Canceled.(As filed) The method of Claim 51 wherein applying said composition to said container comprises introducing into said container said composition in the form of vapor or airborne particles.~~
113. ~~Canceled.(As filed) The method of Claim 87 wherein said bacterium is *Pseudomonas fluorescens* TR97.~~
114. (Amended) ~~The composition of Claim 22~~ A composition to repel or kill insects, fungi, nematodes and bacteria, comprising, an oil-in-water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or a component thereof in an amount of from 1 to 1000 ppm of the emulsion, wherein said essential oil or component thereof is derived from at least one plant species in the Family *Labiatae* and *Umbellifera* wherein said composition further comprises an emulsifying agent which is an oil.
115. ~~Canceled.(As filed) The method of Claim 41 further comprising introducing an essential oil to said soil.~~
116. ~~Canceled.(As filed) The method of Claim 115 wherein said essential oil and bacterium are applied by one of:~~

~~fogging;~~

~~incorporation into irrigation water; and~~

~~application to a substrate selected from dust preparations, granule preparations, perlite and vermiculite.~~

117. (As Filed) The method of Claim 24 wherein said emulsion further comprises a vegetable oil.
118. ~~Canceled.(As Filed) A composition to repel or kill insects, fungi, nematodes and bacteria, comprising, an oil in water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or a component thereof in an amount of from 1 to 1000 ppm of the emulsion, wherein said essential oil or component thereof is derived from at least one plant species in the Family *Labiatae* and *Umbellifera*.~~
119. (Amended) ~~The composition of Claim 118~~ A composition to repel or kill insects, fungi, nematodes and bacteria, comprising, an oil-in-water emulsion comprising, in the oil phase, as an active ingredient, an essential oil or a component thereof in an amount of from 1 to 1000 ppm of the emulsion, wherein said essential oil or component thereof is derived from at least one plant species in the Family *Labiatae* and *Umbellifera*, and wherein said emulsion further comprises a vegetable oil.
120. ~~Canceled.(New) The composition of Claim 118 wherein said plant species is selected from the group consisting of *Thymbra spicata* var. *spicata*, *Satureja thymbra*, *Origanum majorana*, *Corydanthus capitatus*, *Origanum vulgare*,~~

~~Origanum solymicum, Origanum spyleum, Origanum bilgeri, Origanum minutiflorum, Organum saccatum, Origanum sriacum, Origanum onites, Origanum majorana, Pinpinella anisum, and Foeniculum vulgare.~~

121. ~~Canceled.(New) The composition of Claim 120 wherein said plant species is selected from the group consisting of Thymbra spicata var. spicata (L) Line Ant97-364-48, Satureja thymbra (L) Line Ant98-28-103, Pinpinella anisum (L) Line Ant98-223-137, and Foeniculum vulgare (L) Line Ant98-89-62.~~
122. (Newly Added) The composition of Claim 5 further comprising a bacterium which degrades essential oils or components thereof.